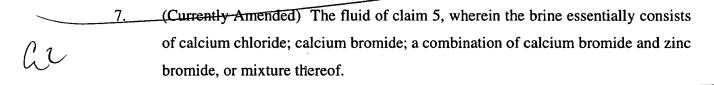
WHAT IS CLAIMED IS:

(Currently Amended) A wellbore fluid, comprising a high brine carrier fluid having a density of at least 10 pounds per gallon, and comprising an inorganic salt and optionally a member selected from the group consisting of organic acids, organic acid salts, and combination of one or more organic acids or organic acid salts, a co-surfactant, selected among sodium dodecylbenzenesulfonate (SDBS), sodium dodecylsulfate (SDS), and mixture thereof, and an amount of a zwitterionic surfactant represented by the formula:



wherein R_1 is an alkyl, alkylarylakyl, alkoxyalkyl, alkylaminoalkyl or alkylamidoalkyl group, containing from about 12 to about 24 carbon atoms, branched or straight chains, saturated or unsaturated, and R_2 and R_3 are independently hydrogen or an aliphatic chain having from 1 to about 30 carbon atoms, and R_4 is a hydrocarbyl radical having from 1 to 4 carbon atoms.

- 2. (deleted).
- 3. (deleted).
- 4. The fluid of cláim 1, wherein the zwitterionic surfactant comprises a betaine moiety and an oleic acid moiety.
- 5. The fluid of claim 1, wherein the brine essentially comprises divalent salts.
- 6. The fluid of claim 5, wherein said divalent salts are alkaline earth halides.



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- 8. The fluid of claim 1, wherein the brine essentially comprises monovalent salts.
- 9. The fluid of claim 8, wherein said monovalent salt are alkali metal halides.
- 10. (Currently Amended) A wellbore fluid, comprising a high brine carrier fluid having a density of at least 10 pounds per gallon, and comprising an inorganic salt selected among sodium, potassium or cesium bromide and optionally a member selected from the group consisting of organic acids, organic acid salts, and combination of one or more organic acids or organic acid salts, a co-surfactant, selected among sodium dodecylbenzenesulfonate (SDBS), sodium dodecylsulfate (SDS), and mixture thereof, and an amount of a zwitterionic surfactant represented by the formula:

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$$R_1$$
 R_2
 R_4
 R_4
 R_4

wherein R₁ is an alkyl, alkylarylakyl, alkoxyalkyl, alkylaminoalkyl or alkylamidoalkyl group, containing from about 12 to about 24 carbon atoms, branched or straight chains, saturated or unsaturated, and R₂ and R₃ are independently hydrogen or an aliphatic chain having from 1 to about 30 carbon atoms, and R4 is a hydrocarbyl radical having from 1 to 4 carbon atoms.

- 11. The fluid of claim 7 further comprising an organic salt.
- 12. (Currently Amended) A wellbore fluid, comprising a high density brine carrier fluid, said carrier fluid having a density of at least 10 pounds per gallon, a member selected from the group consisting of organic acids, organic acid salts, inorganic salts and combination of one or more organic acids or organic acid salts, an amount of a zwitterionic surfactant represented by the formula:

$$R_1$$
 R_1
 R_4
 R_4
 R_3

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wherein R_1 is an alkyl, alkylarylakyl, alkoxyalkyl, alkylaminoalkyl or alkylamidoalkyl group, containing from about 12 to about 24 carbon atoms, branched or straight chains, saturated or unsaturated, and R_2 and R_3 are independently hydrogen or an aliphatic chain having from 1 to about 30 carbon atoms, and R_4 is a hydrocarbyl radical having from 1 to 4 carbon atoms and an hydroxyethylaminocarboxylic acid.

- 13. The fluid of claim 12, wherein said hydroxyethylaminocarboxylic acid is selected from hydroxyethylethylene-diaminetriacetic acid (HEDTA), hydroxyethylimino-diacetic acid (HEIDA), or a mixture thereof or analogous materials hydroxyalkyl, allyl or aryl-aminocarboxylic acids.
- 14. The fluid of claim 13, wherein the inorganic salt or mixture of inorganic salts essentially consists of monovalent salts.
- 15. The fluid of claim 14, wherein the monovalent salts are alkali metal halides.

- 16. (Currently Amended) The fluid of claim 15, wherein said alkali metal halide is sodium, potassium or cesium bromide.
- 17. The fluid of claim 12, further comprising an organic salt.
- 18. A method of treating a subterranean wellbore comprising the step of injecting into the wellbore the high density brine carrier fluid of claim 1.
- 19. The method of claim 18, wherein said method of treating a well includes at least one of the following operations: drilling, hydraulic fracturing, gravel placement, scale removing, mud cake removing.

- 21. The method of claim 20, wherein said method of treating a well includes at least one of the following operations: drilling, hydraulic fracturing, gravel placement, scale removing, mud cake removing.
- 22. (New) A wellbore fluid, comprising a high brine carrier fluid having a density of at least 12.5 pounds per gallon, and comprising an inorganic salt and optionally a member selected from the group consisting of organic acids, organic acid salts, and combination of one or more organic acids or organic acid salts, a co-surfactant, and an amount of a zwitterionic surfactant represented by the formula:

$$\begin{array}{c|c}
R_2 \\
 \downarrow \\
 \downarrow \\
 R_1 & R_4 COO^{-} \\
 \downarrow \\
 R_3
\end{array}$$

wherein R_1 is an alkyl, alkylarylakyl, alkoxyalkyl, alkylaminoalkyl or alkylamidoalkyl group, containing from about 12 to about 24 carbon atoms, branched or straight chains, saturated or unsaturated, and R_2 and R_3 are independently hydrogen or an aliphatic chain having from 1 to about 30 carbon atoms, and R4 is a hydrocarbyl radical having from 1 to 4 carbon atoms.

- 23. (New) The fluid of claim 22, wherein the co-surfactant is selected among salts of an alkyl benzene sulfonate.
- 24. (New) The fluid of claim 22, wherein the co-surfactant is selected among sodium dodecylbenzenesulfonate (SDBS), sodium dodecylsulfate (SDS), and mixture thereof.
- 25. (New) The fluid of claim 22, wherein the zwitterionic surfactant comprises a betaine moiety and an oleic acid moiety.

- 26. (New) The fluid of claim 22, wherein the brine essentially comprises divalent salts.
- 27. (New) The fluid of claim 26, wherein said divalent salts are alkaline earth halides.
- 28. (New) The fluid of claim 26, wherein the brine essentially consists of calcium chloride; calcium bromide; a combination of calcium bromide and zinc bromide, or mixture thereof.
- 29. (New) The fluid of claim 22, wherein the brine essentially comprises monovalent salts.
- 30. (New) The fluid of claim 29, wherein said monovalent salt are alkali metal halides.

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